

Model:TLA0.1G26G-28-50
Low Noise Amplifier
0.1-26GHz, NF:4.0dB, Gain:28dB,P1dB:21dBm
Feature:

- Ultra Wide Band: 0.1-26GHz
- Gain: 28dB Typ
- Noise Figure: 4.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-26			GHz
Gain	27	28		dB
Gain Flatness		±2.5	±3.0	dB
Noise Figure		4	6	dB
Output P1dB	18	21		dBm
Output IP3		30		dBm
Input VSWR		1.8		:1
Output VSWR		1.8		:1
DC Voltage		12		V DC
DC Supply Current		360		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	35*40*12	mm
Weight	60	g

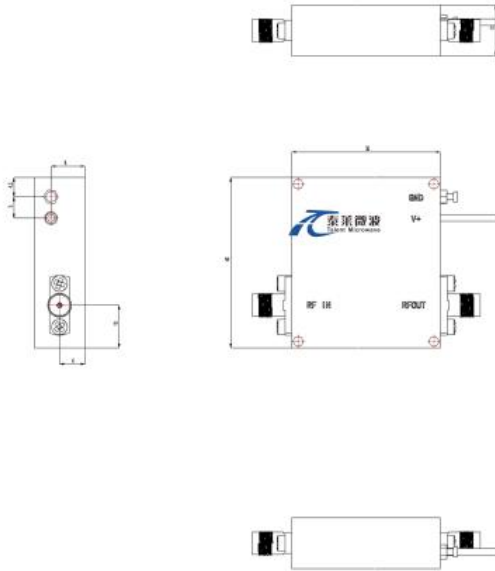
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	-5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

Outline Drawing:

Unit: mm(inches)



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

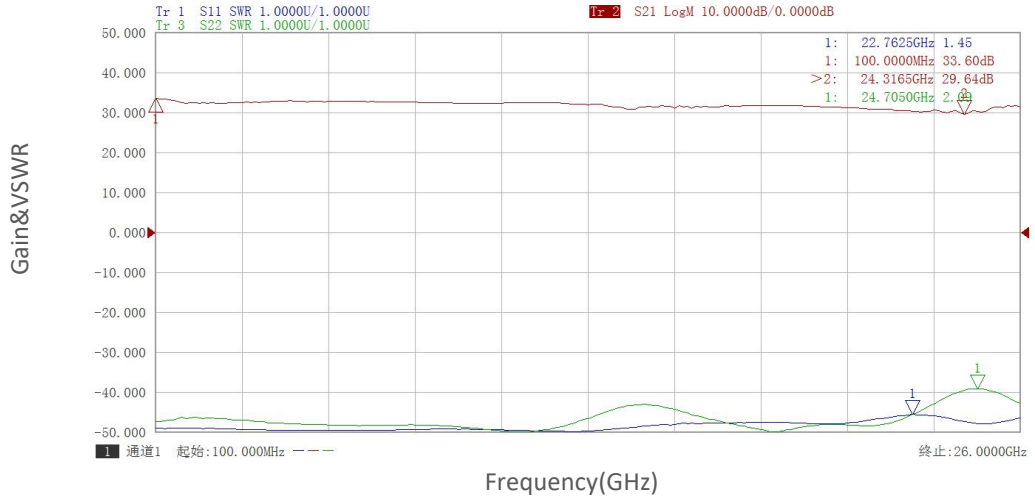
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

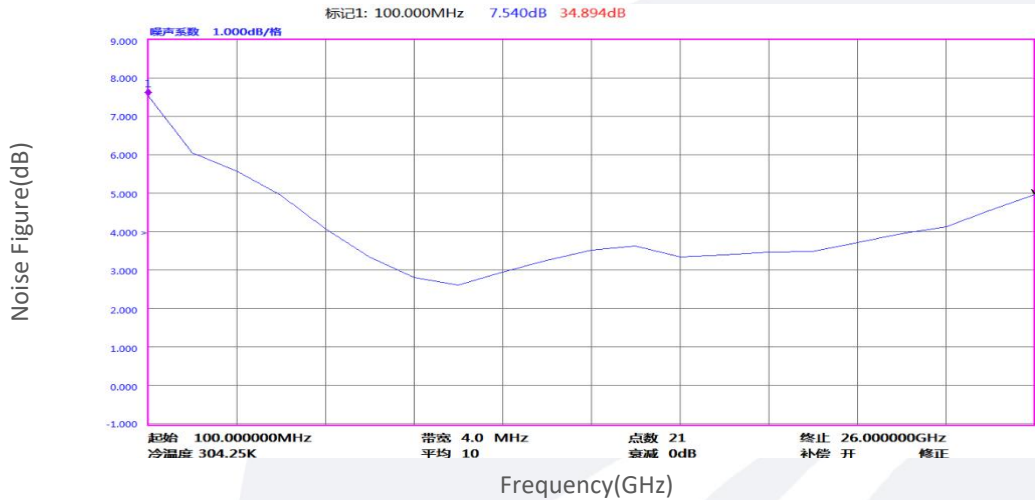
Part Number	Description	Revision
TLLA0.1G26G-28-50	Low Noise Amplifier, 0.1-26GHz, Noise Figure:4.0dB, Gain:28 dB,P1dB:21dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.1G26G-28-50-HS	Low Noise Amplifier, 0.1-26GHz, Noise Figure:4.0dB, Gain:28 dB,P1dB:21dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

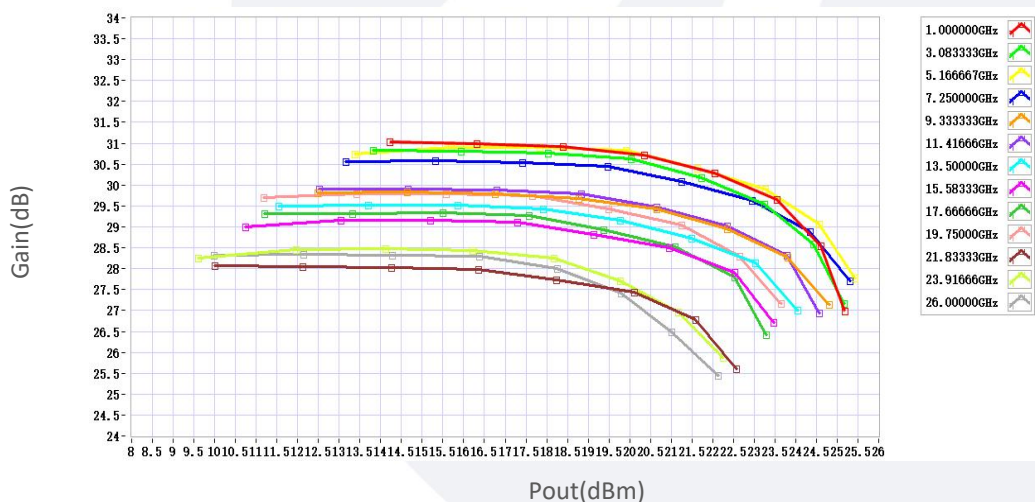
Gain&VSWR vs Frequency



Noise Figure vs Frequency



Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency

